

Pt. 150, Table II

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Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
<i>Mixed soft acid oil.</i>				
<i>Rapeseed acid oil.</i>				
<i>Safflower acid oil.</i>				
<i>Soya acid oil.</i>				
<i>Sunflower seed acid oil.</i>				
Vegetable fatty acid distillates*	34	3	VFD	
<i>Including:</i>				
<i>Palm kernel fatty acid distillate.</i>				
<i>Palm oil fatty acid distillate.</i>				
<i>Tall fatty acid distillate.</i>				
<i>Tall oil fatty acid distillate.</i>				
Vegetable protein solution (hydrolyzed)	43	.....	VPS	
Vinyl acetate	13	2	VAM	
Vinyl chloride	35	.....	VCM	
Vinyl ethyl ether	13	.....	VEE	
Vinylidene chloride	35	.....	VCI	
Vinyl neodecanoate	13	2	VND	
Vinyltoluene	13	.....	VNT	
Water	43	.....	WTR	
Waxes				
Candelilla	34	.....	WCD	
Carnauba	34	.....	WCA	
Paraffin	31	.....	WPF	
Petroleum	33	.....	WPT	
<i>White spirit, see White spirit (low (15–20%) aromatic)</i>	33	.....	WSP	
<i>White spirit (low (15–20%) aromatic)</i>	33	.....	WSL	
<i>Wine, see Alcoholic beverages</i>	20	.....	WSL	WSP.
Wood lignin with Sodium acetate/oxalate*	0	1, 3	ABV	
Xylenes	32	.....	WOL	
Xylenes/Ethylbenzene (10% or more) mixture	32	.....	XLX	XLM/XLO/XLP.
Xylenol	21	.....	XEB	
Zinc alkaryl dithiophosphate (C7-C16)	34	.....	XYL	
Zinc alkenyl carboxamide	10	.....	ZAD	
Zinc alkyl dithiophosphate (C3-C14)	34	.....	ZAA	
Zinc bromide/Calcium bromide solution, <i>see</i> Drilling brine (containing Zinc salts).	43	.....	ZAP	DZB.

Notes:

1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in Figure 1 to 46 CFR part 150 (Compatibility Chart).
2. See Appendix I to 46 CFR part 150 (Exceptions to the Chart).
3. “*” From the March 2012 Annex to the 2007 edition of the IBC Code.
4. *Italicized* words are not part of the cargo name but may be used in addition to the cargo name.

TABLE II TO PART 150—GROUPING OF CARGOES

0. UNASSIGNED CARGOES

Acetone cyanohydrin ^{1,2}	Dodecylbenzenesulfonic acid ^{1,2}
Alkylbenzenesulfonic acid ^{1,2}	Dodecyl hydroxypropyl sulfide ²
Aluminium chloride, Hydrochloric acid solution ¹	Ethylene oxide ¹
Ammonium hydrogen phosphate solution ¹	Hydrogen peroxide solutions ¹
Ammonium nitrate solution ¹	Lactic acid ²
Ammonium thiocyanate, Ammonium thiosulfate solution ¹	Long chain alkaryl sulfonic acid (C16-C60) ²
Benzenesulfonyl chloride ^{1,2}	Magnesium chloride solution ^{1,2}
gamma-Butyrolactone ^{1,2}	Molasses residue ¹
Chlorine ¹	Motor fuel antiknock compounds containing Lead alkyls ¹
Chlorosulfonic acid ¹	Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution ¹
Decyloxytetrahydro-thiophene dioxide ²	NIAX POLYOL APP 240C ^{1,2}
tert-Dodecanethiol ²	Nitrating acid ¹
2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution ^{1,2}	Nitric acid (greater than 70%) ¹
Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution ^{1,2}	o-Nitrophenol ^{1,2}
Diphenylopropane-Epichlorohydrin resins ¹	Noxious Liquid Substance, n.o.s. (NLS's) ¹
	Oleum ^{1,2}
	Phosphorus ¹
	Phthalate based polyester polyol ²
	SAP 7001 ¹
	Sodium chlorate solution ^{1,2}
	Sodium dichromate solution ^{1,2}
	Sodium hydrogen sulfide, Sodium carbonate solution ^{1,2}

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Sodium sulfide, Hydrosulfide solution ^{1,2}
Sodium thiocyanate solution ^{1,2}
Sulfur ¹
Tall oil fatty acid, barium salt ²
Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution
1. NON-OXIDIZING MINERAL ACIDS
Di-(2-ethylhexyl)phosphoric acid
Ferric chloride solution
Fluorosilicic acid
Hydrochloric acid
Phosphoric acid
Polyaluminum chloride solution
2. SULFURIC ACIDS
Sulfuric acid ²
Sulfuric acid, spent
Titanium tetrachloride
3. NITRIC ACID
Ferric nitrate, Nitric acid solution
Nitric acid (70% or less)
4. ORGANIC ACIDS
Acetic acid ²
Acrylic acid ²
Butyric acid
Cashew nut shell oil (untreated)
Citric acid
Chloroacetic acid solution
Chloropropionic acid
Decanoic acid
2,2-Dichloropropionic acid
2,2-Dimethyloctanoic acid
2-Ethylhexanoic acid
Formic acid ²
Glycolic acid
Glyoxylic acid
n-Heptanoic acid
Hexanoic acid
2-Hydroxy-4-(methylthio)butanoic acid
Methacrylic acid
Naphthenic acid
Neodecanoic acid
Nonanoic acid
Nonanoic, Tridecanoic acid mixture
Octanoic acid
n-Pentanoic acid, 2-Methyl butyric acid mixture
Pentanoic acid
Propionic acid
Trimethylacetic acid
Undecanoic acid
5. CAUSTICS
Ammonium sulfide solution
Calcium hypochlorite solutions
Caustic potash solution ²
Caustic soda solution ²
Cresylate spent caustic
Cresylic acid, sodium salt solution
Kraft black liquor
Kraft pulping liquors
Mercaptobenzothiazol, sodium salt solution

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Potassium hydroxide solution ²
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)
Sodium aluminate solution
Sodium borohydride, Sodium hydroxide solution
Sodium carbonate solutions
Sodium cyanide solution
Sodium hydrosulfide solution ²
Sodium hydrosulfide, Ammonium sulfide solution ²
Sodium hydroxide solution ²
Sodium hypochlorite solution
Sodium 2-mercaptopbenzothiazol solution
Sodium naphthenate solution
Sodium nitrite solution
Triphenylborane, Caustic soda solution
Trisodium phosphate solution
Vanillin black liquor
6. AMMONIA
Ammonia, anhydrous
Ammonia, aqueous
Ammonium hydroxide (28% or less Ammonia)
Ammonium nitrate, Urea solution (containing Ammonia)
Urea, Ammonium nitrate solution (containing Ammonia)
7. ALIPHATIC AMINES
N-Aminoethylpiperazine
Butylamine
Cyclohexylamine
Dibutylamine
Diethylamine ²
Diethylenetriamine ²
Diisobutylamine
Diisopropylamine
Dimethylamine
Dimethylamine solution
N,N-Dimethylcyclohexylamine
N,N-Dimethyldodecylamine
Di-n-propylamine
Diphenylamine, reaction product with 2,2,4-Trimethylpentene
Diphenylamines, alkylated
Dodecylamine, Tetradecylamine mixture ²
Dodecyldimethylamine,
Tetradecyldimethylamine mixture
Ethylamine ²
Ethylamine solution
Ethylenamine EA 1302 ²
N-Ethyl-n-butylamine
N-Ethyl cyclohexylamine
Ethylenediamine ²
2-Ethyl hexylamine
N-Ethylmethylallylamine
Glyphosate solution (not containing surfactant)
Hexamethylenediamine
Hexamethylenediamine solution
Hexamethylenetetramine
Hexamethylenetetramine solutions
Hexamethylenimine
HiTec 321

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bis-(Hydrogenated tallow alkyl)methyl amines
 Isophorone diamine
 Long chain polyetheramine in alkyl(C2-C4)benzenes
 Metam sodium solution
 Methylamine solutions
 Morpholine²
 Oleylamine
 Pentaethylenehexamine
 Pentaethylenehexamine,
 Tetraethylenepentamine mixture
 Phosphate esters, alkyl (C12-C14) amine
 Polyethylene polyamines²
 Polyolefin amide alkeneamine (C28+)
 Polyisobutlenamine in aliphatic (C10-C14) solvent
 Poly (C17+) olefin amine
 Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture
 Propanil, Mesityl oxide, Isophorone mixture
 Propylamine
 iso-Propylamine solution
 Roundup
 Sulfohydrocarbon, long chain (C18+) alkylamine mixture
 Tetraethylenepentamine²
 Triethylamine
 Triethylenetetramine²
 Trimethylamine solution
 Trimethylhexamethylene diamine (2,2,4- and 2,4,4-)

8. ALKANOLAMINES

2-(2-Aminoethoxy)ethanol
 Aminoethyl diethanolamine,
 Aminoethylethanolamine solution
 Aminoethylethanolamine
 2-Amino-2-methyl-1-propanol
 Diethanolamine
 Diethylaminoethanol
 Diethyllethanolamine
 Diisopropanolamine
 Dimethyllethanolamine
 Ethanolamine
 Ethoxylated long chain (C16+) alkylxyalkanamine
 Methyl diethanolamine
 Propanolamine
 Triethanolamine²
 Triisopropanolamine
 Ucarsol CR Solvent 302 SG

9. AROMATIC AMINES

Alkyl (C8-C9) phenylamine in aromatic solvents
 Aniline
 Calcium long chain alkyl phenolic amine (C8-C40)
 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution
 Dialkyl (C8-C9) diphenylamines
 2,6-Diethylaniline
 Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution

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2,6-Dimethylaniline
 Diphenylamine
 2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline
 2-Methyl-6-ethyl aniline
 2-Methyl-5-ethyl pyridine
 Methyl pyridine
 3-Methylpyridine
 N-Methyl-2-pyrrolidone²
 Paraldehyde-Ammonia reaction product
 Pyridine
 Pyridine bases
 Toluenediamine
 p-Toluidine

10. AMIDES

Acetochlor
 Acrylamide solution
 Alkenyl(C11+)amide
 N,N-Dimethylacetamide
 N,N-Dimethylacetamide solution
 Dimethylformamide
 Formamide
 N,N-bis(2-Hydroxyethyl) oleamide
 Octadecenoamide
 Zinc alkenyl carboxamide

11. ORGANIC ANHYDRIDES

Acetic anhydride
 Alkenylsuccinic anhydride
 Maleic anhydride
 Phthalic anhydride
 Polyisobutlenyl anhydride adduct
 Polyolefin anhydride
 Propionic anhydride

12. ISOCYANATES

Diphenylmethane diisocyanate
 Hexamethylene diisocyanate
 Isophorone diisocyanate
 Polymethylene polyphenyl isocyanate
 Toluene diisocyanate
 Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)

13. VINYL ACETATE

Vinyl acetate
 Vinyl ethyl ether
 Vinyl neodecanate
 Vinyl toluene

14. ACRYLATES

Butyl acrylate
 Butyl methacrylate
 Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture
 Cetyl-Eicosyl methacrylate mixture
 Decyl acrylate
 Dodecyl methacrylate
 Dodecyl-Octadecyl methacrylate mixture
 Dodecyl-Pentadecyl methacrylate mixture
 Ethyl acrylate
 2-Ethylhexyl acrylate
 Ethyl methacrylate
 2-Hydroxyethyl acrylate²
 Methacrylic resin in Ethylene dichloride

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Methyl acrylate	3-Methyl butyraldehyde
Methyl methacrylate	Methyloxureas
Nonyl methacrylate	3-(Methylthio)propionaldehyde
Polyalkyl(C18 - C22) acrylate in Xylene	Octyl aldehyde
Polyalkyl (C10-C18) methacrylate/Ethylene	Paraldehyde
Polyalkyl (C10-C20) methacrylate	Pentyl aldehyde
Propylene copolymer mixture	Propionaldehyde
Roehm monomer 6615	Valeraldehyde
15. SUBSTITUTED ALLYLS	
Acrylonitrile ²	Acrylonitrile-Styrene copolymer dispersion in Polyether polyol
Allyl alcohol ²	Alcoholic beverages
Allyl chloride	Alcohol polyethoxylates
1,3-Dichloropropene	Alcohol polyethoxylates, secondary
Dichloropropene, Dichloropropane mixtures	Alcohols (C13+)
Methacrylonitrile	Amyl alcohol
16. ALKYLENE OXIDES	
Butylene oxide	Behenyl alcohol
Ethylene oxide, Propylene oxide mixtures	Brake fluid base mixtures
Propylene oxide	1,4-Butanediol
17. EPICHLOROHYDRIN	
Chlorhydrins	Butyl alcohol ²
Epichlorohydrin	Butylene glycol ²
18. KETONES	
Acetone ²	Cetyl-Stearyl alcohol
Acetophenone	Choline chloride solutions
Amyl methyl ketone	Cyclohexanol
Butyl heptyl ketone	Decyl alcohol ²
Camphor oil	Diacetone alcohol ²
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one ²	Diethyl hexanol
Cyclohexanone	Diisobutyl carbinol
Cyclohexanone, Cyclohexanol mixtures ²	2,2-Dimethylpropane-1,3-diol
Diisobutyl ketone	Dodecanol
Ethyl amyl ketone	Dodecyl alcohol
Epoxy resin	Ethoxylated alcohols, C11-C15
Ketone residue	2-Ethoxyethanol
Isophorone ²	Ethyl alcohol ²
Mesityl oxide ²	Ethyl butanol
Methyl amyl ketone	Ethylene chlorohydrin
Methyl butyl ketone	Ethylene cyanohydrin
Methyl butyl ketone	Ethylene glycol ²
Methyl ethyl ketone ²	2-Ethylhexanol
Methyl heptyl ketone	Furfuryl alcohol ²
Methyl isoamyl ketone	Glycerine ²
Methyl isobutyl ketone ²	Glycerine, Dioxanedimethanol mixture
Methyl propyl ketone	Glycerol monooleate
Trifluralin in Xylene	Heptanol
19. ALDEHYDES	
Acetaldehyde	Hexamethylene glycol
Acrolein ²	Hexanol
Butyraldehyde	Hexylene glycol
Crotonaldehyde ²	Hydroxy terminated polybutadiene
Decaldehyde	Icosa(oxypropane-2,3-diyl)s
Ethylhexaldehyde	Lauryl polyglucose (50% or less)
2-Ethyl-3-propylacrolein ²	3-Methoxy-1-butanol
Formaldehyde, Methanol mixtures ²	Methyl alcohol ²
Formaldehyde solution ²	Methyl amyl alcohol
Furfural	Methyl butenol
Glutaraldehyde solution	Methylbutynol
Glyoxal solutions	2-Methyl-2-hydroxy-3-butyne
	Methyl isobutyl carbinol
	3-Methyl-3-methoxybutanol
	2-Methyl-1,3-propanediol
	Molasses
	Nonyl alcohol ²
	Octanol ²
	Octyl alcohol ²
	Penacosa(oxypropane-2,3-diyl)s
	Pentadecanol
	Polyalkylene oxide polyol

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Polybutadiene, hydroxy terminated	Isoprene	
Polyglycerol	Isoprene concentrate (Shell)	
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide) ²	Latex (ammonia (1% or less) inhibited)	
Polyolefin amide alkeneamine polyol	Methyl acetylene, Propadiene mixture	
Propyl alcohol ²	Methyl butene	
Propylene glycol ²	Methylcyclopentadiene dimer	
Rum	2-Methyl-1-pentene	
Sorbitol solutions	4-Methyl-1-pentene	
Stearyl alcohol	alpha-Methyl styrene	
Tallow fatty alcohol	Myrcene	
Tetradecanol	Nonene	
Tridecanol	1-Octadecene	
Trimethyl nonanol	Octene	
Trimethylol propane polyethoxylate	Olefin mixtures	
Undecanol	alpha-Olefins (C6 - C18) mixtures	
Undecyl alcohol	alpha-Olefins (C13+)	
21. PHENOLS, CRESOLS		
Benzyl alcohol	1,3-Pentadiene	
Carbolic oil	Pentene	
Creosote ²	alpha-Pinene	
Cresols	beta-Pinene	
Cresylic acid	Polybutene	
Cresylic acid dephenolized	Poly(4+)-isobutylene	
Cresylic acid, tar	Polyolefin (molecular weight 300+)	
Dibutylphenols	Polypropylene	
2,4-Dichlorophenol	Poly(5+)-propylene	
Dodecyl phenol	Propylene	
o-Ethylphenol	Propylene-butylene copolymer	
Long chain alkylphenate/phenol sulfide mixture	Propylene dimer	
Nonyl phenol	Propylene, Propane, MAPP gas mixture	
Octyl phenol	Propylene tetramer	
Phenol	Propylene trimer	
Xylenols	Styrene monomer	
22. CAPROLACTAM SOLUTIONS		
Caprolactam solution	Tetradecene	
23-29. UNASSIGNED		
30. OLEFINS		
Amylene	Tridecene	
Aryl polyolefin (C11-C50)	Triisobutylene	
Butadiene	Tripropylene	
Butadiene, Butylene mixtures (cont.	Turpentine	
Acetylenes)	Undecene	
Butene	31. PARAFFINS	
Butene oligomer	Alkanes (C6-C9)	
Butylene	n-Alkanes (C10+)	
1,5,9-Cyclododecatriene	iso- & cyclo-Alkanes (C10-C11)	
1,3-Cyclopentadiene dimer	iso- & cyclo-Alkanes (C12+)	
Cyclopentadiene, Styrene, Benzene mixture	Butane	
Cyclopentene	Cycloheptane	
Decene	Cyclohexane	
Dicyclopentadiene	Cyclopentane	
Diisobutylene	Decane	
Dipentene	Dodecane	
Dodecene	Ethane	
Ethylene	Ethyl cyclohexane	
Ethylene-Propylene copolymer	Heptane	
Ethyldene norbornene ²	Hexane ²	
1-Heptene	Methane	
Hexene	Methylcyclohexane	

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32. AROMATIC HYDROCARBONS	
Alkyl(C3-C4)benzenes	Coal tar pitch
Alkyl(C5-C8)benzenes	Decahydronaphthalene
Alkyl(C9+)benzenes	Degummed C9 (DOW)
Alkyl acrylate-Vinyl pyridine copolymer in Toluene	Diphenyl, Diphenyl ether
Alkylbenzene, Alkyldane, Alkyldene mixture (each C12-C17)	Distillates, flashed feed stocks
Benzene	Distillates, straight run
Benzene hydrocarbon mixtures (having 10% Benzene or more)	Drilling mud (low toxicity) (<i>if flammable or combustible</i>)
Benzene, Toluene, Xylene mixtures	Gas oil, cracked
Butylbenzene	Gasoline blending stock, alkylates
Butyl phenol, Formaldehyde resin in Xylene	Gasoline blending stock, reformates
Butyl toluene	Gasolines:
Cumene	Automotive (<i>not over 4.23 grams lead per gal.</i>)
Cymene	Aviation (<i>not over 4.86 grams lead per gal.</i>)
Decylbenzene	Casinghead (<i>natural</i>)
Dialkyl(C10 - C14) benzenes	Polymer
Diethylbenzene	Straight run
Diisopropylbenzene	Jet Fuels:
Diisopropyl naphthalene	JP-4
Diphenyl	JP-5
Dodecylbenzene	JP-8
Dodecyl xylene	Kerosene
Ethylbenzene	Mineral spirits
Ethyl toluene	Naphtha:
1-Hexadecylnaphthalene, 1,4-bis(Hexadecyl)	Coal tar solvent
Isopropylbenzene	Petroleum
Methyl naphthalene	Solvent
Naphthalene	Stoddard solvent
Naphthalene mixture	Varnish Makers' and Painters'
Naphthalene still residue	Oil, fuel:
1-Phenyl-1-xylyl ethane	No. 1
Poly(2+) _n cyclic aromatics	No. 1-D
Polyolefin amine in alkylbenzenes (C2-C4)	No. 2
Propylbenzene	No. 2-D
Pseudocumene	No. 4
C9 Resinfeed (DSM) ²	No. 5
Tetradecylbenzene	No. 6
Tetrahydronaphthalene	Oil, misc:
1,2,3,5-Tetramethylbenzene	Aliphatic
Toluene	Aromatic
Tridecylbenzene	Clarified
Triethylbenzene	Coal
Trimethylbenzene	Crude
Undecylbenzene	Diesel
Xylene	Gas, high pour
Xylenes, Ethylbenzene mixture	Heartcut distillate
33. MISCELLANEOUS HYDROCARBON MIXTURES	
Alachlor	Linseed
Alkylbenzenesulfonic acid, sodium salt solutions	Lubricating
Alkyl dithiothiadiazole (C6-C24)	Mineral
Asphalt blending stocks, roofers flux	Mineral seal
Asphalt blending stocks, straight run residue	Motor
Asphalt emulsion	Neatsfoot
Aviation alkylates	Penetrating
Calcium sulfonate, Calcium carbonate, Hydrocarbon solvent mixture	Pine
Coal tar	Rosin
Coal tar distillate	Sperm
Coal tar, high temperature	Spindle
	Turbine
	Residual
	Road
	Transformer
	Oxyalkylated alkyl phenol formaldehyde
	Petrolatum
	Pine oil
	Polyolefin amine (C28-C250)
	Polyolefin amide alkeneamine (C17+)

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Polyolefin amide alkeneamine borate (C28-C250)	Diethyl phthalate
Sodium petroleum sulfonate	Diethyl sulfate
Sulfohydrocarbon (C3-C88)	Diheptyl phthalate
Waxes:	Dihexyl phthalate
Petroleum	Di-n-hexyl adipate
Sulfurized fat (C14-C20)	Diisobutyl phthalate
Sulfurized polyolefinamide alkeneamines (C28-C250)	Diisodecyl phthalate
White spirit (low (15-20%) aromatic)	Diisononyl adipate
	Diisononyl phthalate
	Diisooctyl phthalate
	Dimethyl adipate
	Dimethylcyclicsiloxane hydrolyzate
	Dimethyl glutarate
	Dimethyl hydrogen phosphite ²
	Dimethyl naphthalene sulfonic acid, sodium salt solution ²
	Dimethyl phthalate
	Dimethyl polysiloxane
	Dimethyl succinate
	Dinonyl phthalate
	Diocetyl phthalate
	Diphenyl tolyl phosphate, less than 0.02% ortho-isomer)
	Dipropylene glycol dibenzoate
	Dithiocarbamate ester (C7-C35)
	Ditridecyl adipate
	Ditridecyl phthalate
	2-Dodecenylsuccinic acid, dipotassium salt solution
	Diundecyl phthalate
	2-Ethoxyethyl acetate
	Ethyl acetate
	Ethyl acetoacetate
	Ethyl butyrate
	Ethylene carbonate
	Ethylene glycol acetate
	Ethylene glycol butyl ether acetate
	Ethylene glycol diacetate
	Ethylene glycol ethyl ether acetate
	Ethylene glycol methyl ether acetate
	Ethyl-3-ethoxypropionate
	Ethyl hexyl phthalate
	Ethyl propionate
	Ethyl propionate
	Fatty acids (saturated, C14+)
	Glycerol polyalkoxylate
	Glyceryl triacetate
	Glycidyl ester of C10 trialkyl acetic acid
	Glycidyl ester of tridecylacetic acid
	Heptyl acetate
	Hexyl acetate
	Lauric acid
	Lecithin
	Magnesium long chain alkaryl sulfonate (C11-C50)
	Magnesium long chain alkyl phenate sulfide (C8-C20)
	Magnesium long chain alkyl salicylate (C11+)
	3-Methoxybutyl acetate
	1-Methoxy-2-propyl acetate
	Methyl acetate
	Methyl acetoacetate
	Methyl amyl acetate
	Methyl butyrate
	Methyl formate
	3-Methyl-3-methoxybutyl acetate

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Methyl salicylate	Polyolefin aminoester salt
Metolachlor	Polyolefin ester (C28-C250)
Naphthalene sulfonic acid, sodium salt solution (40% or less)	Polyolefin phosphorosulfide, barium derivative (C28-C250)
Nonyl acetate	Potassium formate solution
n-Octyl acetate	Potassium oleate
Octyl decyl adipate	Potassium salt of polyolefin acid
Oil, edible:	Propyl acetate
Beechnut	Propylene carbonate
Castor	Propylene glycol methyl ether acetate
Cocoa butter	Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide) ²
Coconut ²	Sodium acetate solution
Cod liver	Sodium benzoate solution
Corn	Sodium dimethyl naphthalene sulfonate solution ²
Cotton seed	Sodium long chain alkyl salicylate (C13+)
Fish ²	Sodium naphthalene sulfonate solution
Groundnut	Soyabean oil (epoxidized)
Hazelnut	Stearic acid
Lard	Tall oil
Lanolin	Tall oil fatty acid (<i>Resin acids less than 20%</i>) ²
Nutmeg butter	Tallow ²
Olive	Tallow fatty acid ²
Palm ²	Tributyl phosphate
Palm kernel	Tricresyl phosphate
Peanut	Tridecanoic acid
Poppy	Tridecyl acetate
Poppy seed	Triethylene glycol dibenzoate
Raisin seed	Triethylene glycol di-(2-ethylbutyrate)
Rapeseed	Triethyl phosphate
Rice bran	Triethyl phosphite ²
Safflower	Triisooctyl trimellitate ²
Salad	Triisopropylated phenyl phosphates
Sesame	2,2,4-Trimethyl-1,3-pentanediol disobutyrate
Soya bean	2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate
Sunflower	2,2,4-Trimethyl-3-pentanol-1-isobutyrate
Sunflower seed	Trimethyl phosphite ²
Tucum	Trisodium nitrilotriacetate
Vegetable	Trixylyl phosphate
Walnut	Trixylenyl phosphate
Oil, misc:	Vegetable acid oils and distillates, n.o.s.
Animal	Vegetable oils, n.o.s.
Coconut oil, fatty acid methyl ester	Waxes:
Cotton seed oil, fatty acid	Carnauba
Lanolin	Zinc alkaryl dithiophosphate (C7-C16)
Palm kernel oil, fatty acid methyl ester	Zinc alkyl dithiophosphate (C3-C14)
Palm oil, methyl ester	
Pilchard	
Perilla	
Soapstock	
Soyabean (epoxidized)	
Tall	
Tall, fatty acid ²	
Tung	
Olefin/Alkyl ester copolymer (molecular weight 2000+)	
Oleic acid	
Palm kernel acid oil	35. VINYL HALIDES
Palm kernel acid oil, methyl ester	Vinyl chloride
Palm stearin	Vinylidene chloride
n-Pentyl propionate	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate	36. HALOGENATED HYDROCARBONS
Polydimethylsiloxane	Benzyl chloride
Polyferric sulfate solution	Bromochloromethane
Polymethylsiloxane	Carbon tetrachloride ²
Poly(20)oxyethylene sorbitan monooleate	Catoxid feedstock ²
Polysiloxane	Chlorinated paraffins (C10 - C13)

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Dibromomethane	Ethylene glycol phenyl ether	
Dibutylphenols	Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture	
3,4-Dichloro-1-butene	Ethylene glycol propyl ether	
Dichlorobenzene	Hexaethylene glycol	
Dichlorodifluoromethane	Methoxy triglycol	
1,1-Dichloroethane	Nonyl phenol poly(4+)ethoxylates	
1,6-Dichlorohexane	Pentaethylene glycol methyl ether	
2,2'-Dichloroisopropyl ether	Polyalkylene glycol butyl ether	
Dichloromethane	Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures	
Dichloropropane	Polyethylene glycols	
Ethyl chloride	Polyethylene glycol dimethyl ether	
Ethylene dibromide	Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Ethylene dichloride ²	Polyethylene glycol monoalkyl ether	
Methyl bromide	Polypropylene glycol methyl ether	
Methyl chloride	Poly(tetramethylene ether) glycols (mw 950-1050)	
Monochlorodifluoromethane	Polytetramethylene ether glycol	
n-Propyl chloride	n-Propoxypropanol	
Pentachloroethane	Propylene glycol monoalkyl ether	
Perchloroethylene	Propylene glycol ethyl ether	
1,1,2,2-Tetrachloroethane	Propylene glycol methyl ether	
1,2,3-Trichlorobenzene	Propylene glycol n-butyl ether	
1,2,4-Trichlorobenzene	Propylene glycol phenyl ether	
1,1,1-Trichloroethane ²	Propylene glycol propyl ether	
1,1,2-Trichloroethane	Tetraethylene glycol	
Trichloroethylene ²	Tetraethylene glycol methyl ether	
1,2,3-Trichloropropane	Triethylene glycol	
1,1,2-Trichloro-1,2,2-trifluoroethane	Triethylene glycol butyl ether	
37. NITRILES		
Acetonitrile	Triethylene glycol butyl ether mixture	
Adiponitrile	Triethylene glycol ether mixture	
Lactonitrile solution	Triethylene glycol ethyl ether	
Propionitrile	Triethylene glycol methyl ether	
Tallow nitrile	Tripropylene glycol	
38. CARBON DISULFIDE		
Carbon disulfide	Tripropylene glycol methyl ether	
39. SULFOLANE		
Sulfolane	41. ETHERS	
40. GLYCOL ETHERS		
Alkyl (C7-C11) phenol poly(4-12)ethoxylate	Alkaryl polyether (C9-C20)	
Alkyl (C9-C15) phenyl propoxylate	tert-Amyl methyl ether	
Diethylene glycol ²	Butyl ether	
Diethylene glycol butyl ether	2,2'-Dichloroethyl ether	
Diethylene glycol dibutyl ether	Diethyl ether	
Diethylene glycol diethyl ether	Diglycidyl ether of Bisphenol A	
Diethylene glycol ethyl ether	Diglycidyl ether of Bisphenol F	
Diethylene glycol methyl ether	Dimethyl furan	
Diethylene glycol n-hexyl ether	1,4-Dioxane	
Diethylene glycol phenyl ether	Diphenyl ether	
Diethylene glycol propyl ether	Diphenyl ether, Diphenyl phenyl ether mixture	
Dipropylene glycol	Ethyl tert-butyl ether ²	
Dipropylene glycol butyl ether	Ethyl ether	
Dipropylene glycol methyl ether	Long chain alkaryl polyether (C11-C20)	
Ethoxy triglycol	Methyl-tert-butyl ether ²	
Ethylene glycol hexyl ether	Methyl tert-pentyl ether	
Ethylene glycol methyl butyl ether	Propyl ether	
Ethylene glycol monoalkyl ethers	Tetrahydrofuran	
Ethylene glycol tert-butyl ether	1,3, 5-Trioxane	
Ethylene glycol butyl ether	Polyether (molecular weight 2000+)	
Ethylene glycol dibutyl ether	42. NITROCOMPOUNDS	
Ethylene glycol ethyl ether	o-Chloronitrobenzene	
Ethylene glycol isopropyl ether	Dinitrotoluene	
Ethylene glycol methyl ether	Nitrobenzene	

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Ethylene glycol phenyl ether	
Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture	
Ethylene glycol propyl ether	
Hexaethylene glycol	
Methoxy triglycol	
Nonyl phenol poly(4+)ethoxylates	
Pentaethylene glycol methyl ether	
Polyalkylene glycol butyl ether	
Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures	
Polyethylene glycols	
Polyethylene glycol dimethyl ether	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Polyethylene glycol monoalkyl ether	
Polypropylene glycol methyl ether	
Poly(tetramethylene ether) glycols (mw 950-1050)	
Polytetramethylene ether glycol	
n-Propoxypropanol	
Propylene glycol monoalkyl ether	
Propylene glycol ethyl ether	
Propylene glycol methyl ether	
Propylene glycol n-butyl ether	
Propylene glycol phenyl ether	
Propylene glycol propyl ether	
Tetraethylene glycol	
Tetraethylene glycol methyl ether	
Triethylene glycol	
Triethylene glycol butyl ether	
Triethylene glycol butyl ether mixture	
Triethylene glycol ether mixture	
Triethylene glycol ethyl ether	
Triethylene glycol methyl ether	
Tripropylene glycol	
Tripropylene glycol methyl ether	
41. ETHERS	
Alkaryl polyether (C9-C20)	
tert-Amyl methyl ether	
Butyl ether	
2,2'-Dichloroethyl ether	
Diethyl ether	
Diglycidyl ether of Bisphenol A	
Diglycidyl ether of Bisphenol F	
Dimethyl furan	
1,4-Dioxane	
Diphenyl ether	
Diphenyl ether, Diphenyl phenyl ether mixture	
Ethyl tert-butyl ether ²	
Ethyl ether	
Long chain alkaryl polyether (C11-C20)	
Methyl-tert-butyl ether ²	
Methyl tert-pentyl ether	
Propyl ether	
Tetrahydrofuran	
1,3, 5-Trioxane	
Polyether (molecular weight 2000+)	
42. NITROCOMPOUNDS	
o-Chloronitrobenzene	
Dinitrotoluene	
Nitrobenzene	

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Nitroethane	Potassium thiosulfate solution
Nitroethane, 1-Nitropropane mixture	Rosin soap (disproportionated) solution
Nitropropane	Sewage sludge, treated
Nitropropane, Nitroethane mixtures	Sodium alkyl sulfonate solution
Nitrotoluene	Sodium hydrogen sulfite solution
43. MISCELLANEOUS WATER SOLUTIONS	
Alkyl polyglucoside solutions	Sodium lignosulfonate solution
Aluminum sulfate solution ²	Sodium polyacrylate solution ²
2-Amino-2-hydroxymethyl-1,3-propanediol solution	Sodium salt of Ferric hydroxyethylethylenediamine triacetic acid solution
Ammonium bisulfite solution ²	Sodium silicate solution ²
Ammonium lignosulfonate solution	Sodium sulfide solution
Ammonium nitrate. Urea solution (not containing Ammonia)	Sodium sulfite solution
Ammonium polyphosphate solution	Sodium tartrates, Sodium succinates solution
Ammonium sulfate solution	Sulfonated polyacrylate solutions ²
Ammonium thiosulfate solution	Tall oil soap (disproportionated) solution
Sulfonated polyacrylate solutions ²	Tetrasodium salt of EDTA solution
Calcium bromide solution	Titanium dioxide slurry
Calcium chloride solution	Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution
Calcium lignosulfonate solution	Urea, Ammonium nitrate solution (not containing Ammonia)
Caramel solutions	Urea, Ammonium phosphate solution
Clay slurry	Urea solution
Corn syrup	Vegetable protein solution (hydrolysed)
Dextrose solution	Water
2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution	
2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution ²	
Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution	
Diethylenetriamine pentaacetic acid, pentasodium salt solution	
Dodecyl diphenyl ether disulfonate solution	
Drilling brine (containing Calcium, Potassium, or Sodium salts)	
Drilling brine (containing Zinc salts)	
Drilling mud (low toxicity) (if non-flammable or non-combustible)	
Ethylenediaminetetraacetic acid, tetrasodium salt solution	
Ethylene-Vinyl acetate copolymer emulsion	
Ferric hydroxyethylethylenediamine triacetic acid, trisodium salt solution ²	
Fish solubles (<i>water based fish meal extracts</i>)	
Fructose solution	
Fumaric adduct of Rosin, water dispersion	
Hexamethylenediamine adipate solution	
N-(Hydroxyethyl)ethylene diamine triacetic acid, trisodium salt solution	
Kaolin clay slurry	
Latex, liquid synthetic	
Lignin liquor	
Liquid Streptomyces solubles	
l-Lysine solution	
N-Methylglucamine solution	
Naphthenic acid, sodium salt solution	
Potassium chloride solution	

FOOTNOTES TO TABLE II

¹Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (CG-ENG-5), Attn: Hazardous Materials Division, U.S. Coast Guard Stop 7509, 2703 Martin Luther King Jr. Avenue SE., Washington, DC 20593-7509. Telephone 202-372-1420 or email hazmatstandards@uscg.mil.

²See Appendix I—Exceptions to the Chart.

[CGD 88-100, 54 FR 40012, Sept. 29, 1989]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting Table II to part 150, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.fdsys.gov.

EFFECTIVE DATE NOTE: By USCG-2013-0423, 78 FR 50187, Aug. 16, 2013, Table II to Part 150 was revised, effective Sept. 16, 2013. At 78 FR 56837, Sept. 16, 2013, the effectiveness was delayed until Jan. 16, 2014. At 79 FR 2106, Jan. 13, 2014, the effectiveness was delayed until Jan. 16, 2015. For the convenience of the user, the revised text is set forth as follows:

TABLE II TO PART 150—GROUPING OF CARGOES

Group	Cargo
0. Unassigned	Acetone cyanohydrin ^{1,2} Alkenoic acid, polyhydroxy ester borated ¹ Alkyl (C8-C10)/(C12-C14) : (60% or more/40% or less)

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Group	Cargo
	Alkyl (C18-C28) toluenesulfonic acid ¹ Alkyl (C11-C17) benzene sulfonic acid polyglucoside solution (55% or less) ¹ Alkybenzenesulfonic acid ^{1 2} Alkyl benzene distillation bottoms ¹ Aluminum chloride, Hydrochloric acid solution ¹ Aluminum chloride/Hydrogen chloride solution ¹ Ammonium hydrogen phosphate solution ¹ Ammonium nitrate solution ¹ Ammonium thiocyanate, Ammonium thiosulfate solution ¹ Benzenesulfonyl chloride ^{1 2} gamma-Butyrolactone ^{1 2} Chlorine ¹ Chlorosulfonic acid ¹ Decyloxytetrahydro-thiophene dioxide ¹ tert-Dodecanethiol ¹ 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less) ^{1 2} Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution ^{1 2} Dimethyl disulfide ¹ Diphenylol propane-Epichlorohydrin resins ¹ Dodecylbenzenesulfonic acid ^{1 2} Dodecyl hydroxypropyl sulfide ^{1 2} Ethylene oxide ¹ Hydrogen peroxide solutions ¹ Hydrogenated starch hydrolysate ¹ Lactic acid ^{1 2} Ligninsulfonic acid, sodium salt solution ¹ Liquid chemical wastes ¹ Long chain alkaryl sulfonic acid (C16-C60) ^{1 2} Magnesium chloride solution ^{1 2} Malitol solution ¹ Methyl cyclopentadienyl manganese tricarbonyl ¹ Methyl cyclopentadienyl manganese tricarbonyl (60–70%) in mineral oil ¹ Molybdenum polysulfide long chain alkyl dithiocarbamide complex ¹ Molasses residue ¹ Motor fuel antiknock compounds containing Lead alkyls ¹ Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution ¹ NIAX POLYOL APP 240C ^{1 2} Nitrating acid ¹ Nitric acid (greater than 70%) ¹ o-Nitrophenol ^{1 2} Noxious Liquid Substance, n.o.s. (NLS's) ¹ Oleum ^{1 2} Orange juice (concentrated) ¹ Orange juice (not concentrated) ¹ Oxygenated aliphatic hydrocarbon mixture ¹ Phosphorus ¹ Phthalate based polyester polyol ^{1 2} Potassium polysulfide, Potassium thiosulfide solution (41% or less) ¹ 2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution ¹ SAP 7001 ¹ Sodium chlorate solution ^{1 2} Sodium dichromate solution ^{1 2} Sodium hydrogen sulfide, Sodium carbonate solution ^{1 2} Sodium sulfide, Hydrosulfide solution ^{1 2} Sodium thiocyanate solution ^{1 2} Sulfur ¹ Tall oil fatty acid, barium salt ^{1 2} Tetraethyl silicate monomer/oligomer (20% in ethanol) ¹ Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution ¹ Wood lignin with Sodium acetate/oxalate ¹ Di-(2-ethylhexyl)phosphoric acid Ferric chloride solution Fluorosilicic acid (20–30%) in water solution Fluorosilicic acid (30% or less) Hydrochloric acid Phosphoric acid Polyaluminum chloride solution Sulfuric acid ² Sulfuric acid, spent Titanium tetrachloride Ferric nitrate, Nitric acid solution Nitric acid (70% or less) Nitric acid (70% and over)
1. Non-Oxidizing Mineral Acids	
2. Sulfuric Acids	
3. Nitric Acids	

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Group	Cargo
4. Organic Acids	Acetic acid ² Acid oil mixture from soya bean, corn (maize) and sunflower oil refining Acrylic acid ² Butyric acid i-Butyric acid Cashew nut shell oil (untreated) Citric acid (70% or less) Chloroacetic acid solution Chloroacetic acid (80% or less) Chloropropionic acid Decanoic acid 2,2-Dichloropropionic acid 2,2-Dimethyloctanoic acid 2-Ethylhexanoic acid Fatty acids, (C8-C10) Fatty acids, (C16+) Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester Fatty acid methyl esters Formic acid ² Formic acid (over 85%) ² Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate) ² Glycolic acid Glyoxylic acid n-Heptanoic acid 1,6-Hexanediol distillation overheads Hexanoic acid 2-Hydroxy-4-(methylthio)butanoic acid Jatropha oil Long chain alkyl (C13+) salicylic acid Metal fatty acid salt Metal long chain alkyl salt Methacrylic acid Microsilica slurry Naphthenic acid Neodecanoic acid Nonanoic acid Nonanoic, Tridecanoic acid mixture Octanoic acid (all isomers) n-Pentanoic acid, 2-Methyl butyric acid mixture Pentanoic acid Propionic acid Trimethylacetic acid Undecanoic acid
5. Caustics	Ammonium sulfide solution (45% or less) Calcium hypochlorite solutions Calcium hypochlorite solution (15% or less) Calcium hypochlorite solution (more than 15%) Caustic potash solution ² Caustic soda solution ² Cresylate spent caustic Cresylic acid, sodium salt solution Kraft black liquor Kraft pulping liquors Mercaptobenzothiazol, sodium salt solution Potassium hydroxide solution ² Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide) Sodium aluminate solution Sodium borohydride, Sodium hydroxide solution Sodium carbonate solutions Sodium cyanide solution Sodium hydrosulfide solution ² Sodium hydrosulfide, Ammonium sulfide solution ² Sodium hydroxide solution ² Sodium hypochlorite solution Sodium 2-mercaptobenzothiazol solution Sodium naphthenate solution Sodium nitrite solution Triphenylborane, Caustic soda solution Trisodium phosphate solution Vanillin black liquor
6. Ammonia	Ammonia, anhydrous Ammonia, aqueous Ammonium hydroxide (28% or less Ammonia)

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Group	Cargo
7. Aliphatic Amines	Ammonium nitrate, Urea solution (containing Ammonia) Urea, Ammonium nitrate solution (containing Ammonia) Alkenylamine mixtures Alkyl (greater than C8) amine, Alkenyl (greater than C12) acid ester in mineral oil Alkyl amine (C17 or greater) Alkyl (C12+) dimethylamine N-Aminoethylpiperazine Butylamine (all isomers) Calcium long chain alkyl phenolic amine (C8-C40) Crude piperazine Cyclohexylamine Dibutylamine Diethylamine Diethylenetriamine ² Diisobutylamine Diisopropylamine Dimethylamine Dimethylamine solution (45% or less) Dimethylamine solution (greater than 45% but not greater than 55%) Dimethylamine solution (greater than 55% but not greater than 65%) N,N-Dimethylcyclohexylamine N,N-Dimethyldodecylamine Di-n-propylamine Diphenylamine, reaction product with 2,2,4-Trimethylpentene Diphenylamines, alkylated Dodecylamine, Tetradecylamine mixture ² Dodecylmethyldimethylamine, Tetradecylmethyldimethylamine mixture Ethoxylated tallow alkyl amine Ethoxylated tallow amine (>95%) Ethoxylated tallow alkyl amine, glycol mixture Ethylamine ² Ethylamine solution (72% or less) Ethyleneamine EA 1302 ² N-Ethyl-n-butylamine N-Ethyl cyclohexylamine Ethylenediamine ² 2-Ethyl hexylamine N-Ethylmethylallylamine Glyphosate solution (not containing surfactant) Hexamethylene diamine Hexamethylenediamine (molten) Hexamethylenediamine solution Hexamethylenetetramine Hexamethylenetetramine solutions Hexamethylenimine HiTec 321 bis-(Hydrogenated tallow alkyl)methyl amines Isophorone diamine Isopropylamine Isopropylamine (70% or less) solution Long chain alkyl amine Long chain polyetheramine in alkyl(C2-C4)benzenes Metam sodium solution Methylamine solutions (42% or less) Morpholine ² Oleylamine Pentaethylenehexamine Pentaethylenehexamine, Tetraethylenepentamine mixture Phosphate esters, alkyl (C12-C14) amine Polyalkenyl succinic anhydride amine Polyalkyl alkeneamine succinimide, molybdenum oxysulfide Polyethylene polyamines ² Polyethylene polyamines (more than 50% C5-C20 paraffin oil) Poly(iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less) Polyisobuteneamine in aliphatic (C10-C14) solvent Polyolefin amide alkeneamine (C28+) Polyolefin amide alkeneamine polyol Poly olefin amine Poly (C17-) olefin amine Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture Polyoxypropylenediamine (MW 2000) Propanil, Mesityl oxide, Isophorone mixture Propylamine iso-Propylamine solution

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Group	Cargo
8. Alkanolamines	Roundup Sulfohydrocarbon, long chain (C18+) alkylamine mixture Tetraethylenepentamine ² Triethylamine Triethylenetetramine ² Trimethylamine solution Trimethylhexamethylene diamine (2,2,4- and 2,4,4-) Alkyl (C12-C16) propoxyamine ethoxylate 2-(2-Aminoethoxy)ethanol Aminoethyl diethanolamine, Aminoethyl ethanolamine solution Aminoethyl ethanolamine 2-Amino-2-methyl-1-propanol Diethanolamine Diethylaminoethanol Diethylethanolamine Diisopropanolamine Dimethylethanolamine Ethanolamine Ethoxylated alkyloxy alkyl amine Ethoxylated long chain (C16+) alkyloxyalkanamine Isopropanolamine Isopropanolamine solution N,N-bis (2-Hydroxyethyl) oleamide Linear alkyl (C12-C16) propoxyamine ethoxylate Methyl diethanolamine Propanolamine Triethanolamine ² Triisopropanolamine Ugarsol CR Solvent 302 SG
9. Aromatic Amines	Alkyl (C8-C9) phenylamine in aromatic solvents Amine C-6, morpholine process residue Aniline Calcium long chain alkyl phenolic amine (C8-C40) 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution Dialkyl (C8-C9) diphenylamines 2,6-Diethylaniline Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution 2,6-Dimethylaniline Diphenylamine Diphenylamine (molten) Diphenylamine, reaction product with 2,2,4-trimethylpentene Diphenylamines, alkylated 2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline N-Methylaniline 2-Methyl-6-ethyl aniline 2-Methyl-5-ethyl pyridine Methyl pyridine 2-Methylpyridine 3-Methylpyridine 4-Methylpyridine N-Methyl-2-pyrrolidone ² Paraldehyde-Ammonia reaction product Polyolefin phenoic amine (C28-C250) Pyridine Pyridine bases Toluenediamine p-Toluidine Acetochlor
10. Amides	Acrylamide solution (50% or less) Alkenyl(C11-)amide N,N-Dimethylacetamide N,N-Dimethylacetamide solution N,N-Dimethylacetamide solution (40% or less) Dimethylformamide Formamide N,N-bis(2-Hydroxyethyl) oleamide Octadecenoamide Organomolybdenum amide Polybutenyl succinimide Polyisobutylene succinimide Zinc alkenyl carboxamide Acetic anhydride Alkenylsuccinic anhydride Alkyl succinic anhydride
11. Organic Anhydrides	

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Group	Cargo
12. Isocyanates	Maleic anhydride Phthalate based polyester polyol Phthalic anhydride Polyisobutylene anhydride adduct Polyisobutylene succinic anhydride Polyolefin anhydride Propionic anhydride Diphenylmethane diisocyanate Hexamethylene diisocyanate Isophorone diisocyanate Polymethylene polyphenyl isocyanate Toluene diisocyanate Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)
13. Vinyl Acetates	Vinyl acetate Vinyl ethyl ether Vinyl neodecanate Vinyl toluene
14. Acrylates	Butyl acrylate (all isomers) Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture Butyl methacrylate i-Butyl methacrylate Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture Cetyl-Eicosyl methacrylate mixture Decyl acrylate Dodecyl methacrylate Dodecyl-Octadecyl methacrylate mixture Dodecyl-Pentadecyl methacrylate mixture Ethyl acrylate 2-Ethylhexyl acrylate Ethyl methacrylate 2-Hydroxyethyl acrylate ² Isobutyl methacrylate Methacrylic resin in Ethylene dichloride Methyl acrylate Methyl methacrylate Nonyl methacrylate Polyalkyl acrylate Polyalkyl(C18-C22) acrylate in Xylene Polyalkyl (C10-C18) methacrylate/Ethylene Polyalkyl methacrylate Polyalkyl methacrylate in mineral oil Polyalkyl (C10-C20) methacrylate Polyalkyl methacrylate solution (containing max 40% active material) Propylene copolymer mixture Roehm monomer 6615
15. Substituted Allyls	Acrylonitrile ² Allyl alcohol ² Allyl chloride 1,3-Dichloropropene Dichloropropene Dichloropropene, Dichloropropane mixtures Methacrylonitrile Butylene oxide Ethylene oxide, Propylene oxide mixtures Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass Propylene oxide
16. Alkylene Oxides	Chlorohydrins (crude) Epichlorohydrin
17. Epichlorohydrins	Acetone ² Acetophenone Amyl methyl ketone Butyl heptyl ketone Camphor oil 1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one ² Cyclohexanone Cyclohexanone, Cyclohexanol mixtures ² Diisobutyl ketone Ethyl amyl ketone Epoxy resin Ketone residue Isophorone ² Mesityl oxide ² Methyl amyl ketone

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Group	Cargo
19. Aldehydes	Methyl butyl ketone Methyl ethyl ketone ² Methyl heptyl ketone Methyl isoamyl ketone Methyl isobutyl ketone ² Methyl propyl ketone beta-Propiolactone Trifluralin in Xylene Acetaldehyde Acrolein ² Butyraldehyde (all isomers) Crotonaldehyde ² Decaldehyde Ethylhexaldehyde 2-Ethyl-3-propylacrolein ² Formaldehyde, Methanol mixtures ² Formaldehyde solutions ² Furfural Glutaraldehyde solution Glyoxal solutions 3-Methyl butyraldehyde Methylolureas 3-(Methylthio)propionaldehyde Octyl aldehyde Paraldehyde Pentyl aldehyde Propionaldehyde Valeraldehyde Acrylonitrile-Styrene copolymer dispersion in Polyether polyol Alcoholic beverages Alcohol polyethoxylates Alcohol polyethoxylates, secondary Alcohols (C13+) Alcohols (C12+), primary, linear Alcohols (C12-C13), primary, linear and essentially linear Alcohols (C14-C18), primary, linear and essentially linear Alkyl (C4-C9) phenols n-Amyl alcohol Amyl alcohol, primary sec—Amyl alcohol tert- Amyl alcohol Behenyl alcohol Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume) Brake fluid base mixtures Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters 1,4-Butanediol Butyl alcohol ² (all isomers) n-Butyl alcohol iso-Butyl alcohol t-Butyl alcohols Butylene glycol ² Cetyl-Stearyl alcohol Choline chloride solutions Cyclohexanol Cyclopentanol Decyl alcohol (all isomers) ² Decyl/Dodecyl/Tetradecyl alcohol mixture Diacetone alcohol ² Diethyl hexanol Diethylene glycol Diethylene glycol dibenzoate Diisobutyl carbinol 2,2-Dimethylpropane-1,3-diol Dodecanol Dodecyl alcohol Dodecyl hydroxypropyl sulfide Ethoxylated alcohols, C11-C15 2-Ethoxyethanol Ethyl alcohol ² Ethyl butanol Ethylene chlorohydrin Ethylene cyanohydrin Ethylene glycol ² 2-Ethylhexanol Furfuryl alcohol ²
20. Alcohols, Glycols	

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Group	Cargo
	Glycerine ² Glycerine, Dioxanedimethanol mixture Glycerol monooleate Glycol Glycol mixture, crude Heptanol Hexamethylene glycol Hexanol Hexylene glycol Hydroxy terminated polybutadiene Icosa(oxypropane-2,3-diy)ls Isoamyl alcohol Isobutyl alcohol Isopropyl alcohol Lauryl polyglucose (50% or less) Methacrylic acid-alkyloxypoly (alkylene oxide) methacrylate copolymer sodium salt aqueous solution (45% or less) 3-Methoxy-1-butanol Methyl alcohol ² Methyl amyl alcohol alpha-Methylbenzyl alcohol with acetophenone (15% or less) Methyl butenol Methylbutynol 2-Methyl-2-hydroxy-3-butyne Methyl isobutyl carbinol 3-Methyl-3-methoxybutanol 2-Methyl-1,3-propanediol Molasses Nonyl alcohol ² Octanol (all isomers) ² Octyl alcohol ² Penacosa(oxypropane-2,3-diy)ls Pentadecanol Polyalkylene oxide polyol Polybutadiene, hydroxy terminated Polyglycerol Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide) ² Polyolefin amide alkeneamine polyol Propyl alcohol ² Propylene glycol ² Rum Sodium methylate solution (21–30% in Methanol) Sorbitol solutions Stearyl alcohol Tallow fatty alcohol Tetradecanol Tridecanol Trimethyl nonanol Trimethylol propane polyethoxylate Undecanol Undecyl alcohol Alkylated (C4-C9) hindered phenols Benzyl alcohol Carbolic oil Creosote ² Creosote (coal tar) ² Creosote (wood tar) ² Cresols (all isomers) Cresylic acid Cresylic acid dephenolized Cresylic acid, tar Dibutylphenols 2,4-Dichlorophenol Di-tert-butyl phenols 2,4-Di-tert-butyl phenols 2,6-Di-tert-butyl phenols Dodecyl phenol o-Ethylphenol Long chain alkylphenate/phenol sulfide mixture Methylene bridged isobutyleneated phanols Nonyl phenol Nonyl phenol (48–62%)/Phenol (42–48%)/Dinonyl phenol (1–10%) mixture Octyl phenol Phenol
21. Phenols, Cresols	

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Group	Cargo
22. Caprolactam Solutions	Xylenols Caprolactam solution epsilon-Caprolactam (molten or aqueous solutions)
23-29. Unassigned.	Acrylic acid/ethenesulfonic acid copolymer with phosphonate groups, sodium salt solution
30. Olefins	Amylene Aryl polyolefin (C11-C50) Butadiene Butadiene, Butylene mixtures (cont. Acetylenes) Butadiene Feedstock [Kirby] Butene Butene oligomer Butylene 1,5,9-Cyclododecatriene 1,3-Cyclopentadiene dimer (molten) Cyclopentadiene, Styrene, Benzene mixture Cyclopentene Decene Dichloropropene Dicyclopentadiene Dicyclopentadiene, Resin Grade, 81–89% Diisobutylene Dipentene Dodecene Ethylene Ethylene-Propylene copolymer Ethyldene norbornene ² 1-Heptene Hexene (all isomers) Isoprene Isoprene concentrate (Shell) Latex (ammonia (1% or less) inhibited Methyl acetylene, Propadiene mixture Methyl butene Methylcyclopentadiene dimer 2-Methyl-1-pentene 4-Methyl-1-pentene alpha-Methyl styrene Myrcene Nonene 1-Octadecene Octene Olefin mixtures Olefin mixture (C7-C9) C8 rich, stabilized Olefin mixtures (C5-C7) Olefin mixtures (C5-C15) alpha-Olefins (C6-C18) mixtures alpha-Olefins (C13+) 1,3-Pentadiene 1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures Pentene alpha-Pinene beta-Pinene Polybutene Poly(4+)isobutylene Polyolefin in mineral oil Polyolefin (molecular weight 300+) Polypropylene Poly(5+)propylene Propylene Propylene-butylene copolymer Propylene dimer Propylene, Propane, MAPP gas mixture Propylene tetramer Propylene trimer Styrene monomer Tetradecene Tridecene Trisobutylene Tripropylene Turpentine Undecene Alkanes (C6-C9) Alkanes (C10-C26) linear and branched
31. Paraffins	

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Group	Cargo
	Alkanes (C10-C26) linear and branched (flash point >60 °C) n-Alkanes (C10+) iso- & cyclo-Alkanes (C10-C11) iso- & cyclo-Alkanes (C12+) Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120 °C) Butane Cycloheptane Cyclohexane Cyclopentane Decane Dodecane Ethane Ethyl cyclohexane Heptane Hexane ² Isopropylcyclohexane Methane Methylcyclohexane 2-Methyl pentane Mineral oil Nonane Octane Paraffin wax Pentane Polyalpha olefins Polyolefin (molecular weight 300+) Propane iso-Propylcyclohexane Tridecane Waxes: Paraffin Alkyl(C3-C4)benzenes Alkyl(C5-C8)benzenes Alkyl(C9+)benzenes Alkyl acrylate-Vinyl pyridine copolymer in Toluene Alkylbenzene, Alkyldiene, Alkyldene mixture (each C12-C17) Alkylbenzene mixtures (containing at least 50% of Toluene) Alkyl toluene Alkyl (C18+) toluene Aryl polyolefin (C11-C50) Benzene Benzene hydrocarbon mixtures (having 10% Benzene or more) Benzene, Toluene, Xylene mixtures Butylbenzene (all isomers) Butyl phenol, Formaldehyde resin in Xylene Butyl toluene Cumene Cymene Decylbenzene Dialkyl(C10-C14) benzenes Diethylbenzene Diisopropylbenzene (all isomers) Diisopropyl naphthalene Diphenyl Dodecylbenzene Dodecyl xylene Ethylbenzene Ethyl toluene 1-Hexadecylnaphthalene, 1, 4-bis(Hexadecyl) 1,1-Hexadecylnaphthalene/1,4-bis (hexadecyl) naphthalene mixture 1,n-Hexadecylnaphthalene (90%), 1,4-Di-n-(hexadecyl)-naphthalene (10%) Isopropylbenzene Methyl naphthalene (molten) Naphthalene (molten) Naphthalene mixture Naphthalene still residue 1-Phenyl-1-xylyl ethane Parachlorobenzotrifluoride Poly(2+)-cyclic aromatics Polyolefin amine in alkylbenzenes (C2-C4) Polyolefin amine in aromatic solvent Propylbenzene Pseudocumene Pyrolysis gasoline (containing Benzene) C9 Resinfeed (DSM) ²

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Group	Cargo
33. Miscellaneous Hydrocarbon Mixtures.	Tetradecylbenzene Tetrahydronaphthalene 1,2,3,5-Tetramethylbenzene Toluene Tridecylbenzene Triethylbenzene Trimethylbenzene Undecylbenzene Xylene Xylenes, Ethylbenzene mixture Alachlor Alachlor technical (90% or more) Alkylbenzenesulfonic acid, sodium salt solutions Alkyl dithiothiadiazole (C6-C24) Alkyl toluene sulfonic acid, calcium salts Alkyl (C18-C28) toluene sulfonic acid, Calcium salts, high overbase Alkyl (C18-C28) toluene sulfonic acid, Calcium salts, low overbaseAsphalt blending stocks, roofers flux Asphalt blending stocks, straight run residue Asphalt emulsion Asphalt, kerosene, and other components Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but <99% by volume) Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point <60 °C (>25% but <99% by volume) Calcium sulfonate, Calcium carbonate, Hydrocarbon solvent mixture Coal tar Coal tar distillate Coal tar, high temperature Coal tar pitch (molten) Decahydronaphthalene Degummed C9 (DOW) Diphenyl, Diphenyl ether Distillates Distillates, flashed feed stocks Distillates, straight run Drilling mud (low toxicity) (<i>if flammable or combustible</i>) Gas oil, cracked Gasoline blending stock, alkylates Gasoline blending stock, reformates Gasolines: Automotive (<i>not over 4.23 grams lead per gal.</i>) Aviation (<i>not over 4.86 grams lead per gal.</i>) Casinghead (<i>natural</i>) Polymer Straight run Jet Fuels: JP-4 JP-5 JP-8 Kerosene Maleated ethylene-propylene copolymer reaction product [synthetic rubber] Mineral spirits Naphtha: Coal tar solvent Petroleum Solvent Stoddard solvent Varnish Makers' and Painters' Oil, fuel: No. 1 No. 1-D No. 2 No. 2-D No. 4 No. 5 No. 6 Oil, misc: Aliphatic Aromatic Clarified Coal Crude Diesel

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Group	Cargo
	Gas, high pour Heartcut distillate Linseed Lubricating Mineral Mineral seal Motor Neatsfoot Penetrating Pine Rosin Sperm Spindle Turbine Residual Road Transformer Oxyalkylated alkyl phenol formaldehyde Petrolatum Pine oil Polybutene Polyolefin amine (C28-C250) Polyolefin amide alkeneamine (C17+) Polyolefin amide alkeneamine (C28+) Polyolefin amide alkeneamine borate (C28-C250) Polyolefin amide alkeneamine in mineral oil Resin oil, distilled Sodium petroleum sulfonate Sulfohydrocarbon (C3-C88) Waxes: Petroleum Sulfurized fat (C14-C20) Sulfurized polyolefinamide alkeneamines (C28-C250) White spirit (low (15–20%) aromatic) 34. Esters Acid oil mixture from soybean, corn (maize) and sunflower oil refining Alkane (C14-C17) sulfonic acid, sodium salt solution Alkyl(C8+)-amine, Alkenyl (C12+) acid ester mixture Alkylaryl phosphate mixtures, (more than 40% Diphenyl tolyl phosphate. Less than 0.02% ortho-isomer) Alkyl dithiocarbamate (C19-C35) Alkyl ester copolymer (C4-C20) Alkyl ester copolymer (C6-C18) Alkyl ester copolymer in mineral oil Alkyl(C7-C9) nitrates ² Alkyl (C8-C40) phenol sulfide Alkyl (C10-C20, saturated and unsaturated) phosphite Alkyl sulfonic acid ester of phenol Alkyl (C18-C28) toluene sulfonic acid, Calcium salts, borated Alkylaryl phosphate mixtures (more than 40%) Amyl acetate (all isomers) Amyl acid phosphate t-Amyl formate Animal and Fish oils, n.o.s. Animal and Fish acid oils and distillates, n.o.s. Barium long chain alkaryl (C11-C50) sulfonate Barium long chain alkyl(C8-C14)phenate sulfide Benzene tricarboxylic acid trioctyl ester Benzyl acetate Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume) Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume) Boronated calcium sulfonate Butyl acetate (all isomers) Butyl benzyl phthalate Butyl butyrate (all isomers) Butyl formate iso-Butyl isobutyrate n-Butyl propionate Butyl stearate Calcium alkaryl sulfonate (C11-C50) Calcium alkyl(C9)phenol sulfide, polyolefin phosphorusulfide mixture Calcium alkyl (C10-C28) salicylateCalcium carbonate slurry Calcium long chain alkaryl sulfonate (C11-C50) Calcium long chain alkyl (C5-C10) phenate Calcium long chain alkyl (C5-C20) phenate

Group	Cargo
	Calcium long chain alkyl (C11-C40) phenate
	Calcium long chain alkyl phenate sulfide (C8-C40)
	Calcium long chain alkyl phenates
	Calcium long chain alkyl salicylate (C13+)
	Calcium long chain alkyl (C18-C28) salicylate
	Calcium nitrate, Magnesium nitrate, Potassium chloride solution
	Calcium nitrate
	Calcium nitrate solutions (50% or less)
	Calcium salts of fatty acids
	Calcium stearate
	Camelina oil
	Cesium formate solution
	Cobalt naphthenate in solvent naphtha
	Coconut oil, fatty acid
	Coconut oil, fatty acid methyl ester
	Copper salt of long chain (C3-C16) fatty acid
	Copper salt of long chain (C17+) fatty acid
	Copper salt of long chain alcanoic acids
	Cottonseed oil, fatty acid
	Cyclohexyl acetate
	Decyl acetate
	Dialkyl(C7-C13) phthalates
	Dialkyl(C7-C17) phthalates
	Dialkyl thiophosphates sodium salts solution
	Dibutyl hydrogen phosphonate
	Dibutyl phthalate
	Dibutyl terephthalate
	Diethylene glycol butyl ether acetate
	Diethylene glycol dibenzoate
	Diethylene glycol ethyl ether acetate
	Diethylene glycol methyl ether acetate
	Diethylene glycol phthalate
	Di-(2-ethylhexyl)adipate
	Di-(2-ethylhexyl)phthalate
	Diethyl phthalate
	Diethyl sulfate
	Diheptyl phthalate
	Dihexyl phthalate
	Di-n-hexyl adipate
	Diisobutyl phthalate
	Diisodecyl phthalate
	Diisononyl adipate
	Diisononyl phthalate
	Diisooctyl phthalate
	Dimethyl adipate
	Dimethylcyclcsiloxane hydrolyzate
	Dimethyl glutarate
	Dimethyl hydrogen phosphite ²
	Dimethyl naphthalene sulfonic acid, sodium salt solution ²
	Dimethyl phthalate
	Dimethyl polysiloxane
	Dimethyl succinate
	Dinonyl phthalate
	Diocyl phthalate
	Diphenyl tolyl phosphate, less than 0.02% ortho-isomer)
	Dipropylene glycol dibenzoate
	Dithiocarbamate ester (C7-C35)
	Ditridecyl adipate
	Ditridecyl phthalate
	2-Dodecenylicsuccinic acid, dipotassium salt solution
	Diundecyl phthalate
	2-Ethoxyethyl acetate
	Ethyl acetate
	Ethyl acetoacetate
	Ethyl butyrate
	2-Ethyl-2-(2,4-dichlorophenoxy) acetate
	2-Ethyl-2-(2,4-dichlorophenoxy) propionate
	s-Ethyl dipropylthiocarbamate
	Ethylene carbonate
	Ethylene glycol
	Ethylene glycol acetate
	Ethylene glycol butyl ether acetate
	Ethylene glycol diacetate
	Ethylene glycol ethyl ether acetate

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Group	Cargo
	Ethylene glycol methyl ether acetate
	Ethyl-3-ethoxypropionate
	Ethyl hexyl phthalate
	2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, C8-C10 ester
	Ethyl propionate
	Ethyl propionate
	Fatty acids (saturated, C14+)
	Glycerol polyalkoxylate
	Glyceryl triacetate
	Glycidyl ester of C10 trialkyl acetic acid
	Glycidyl ester of tridecylacetic acid
	Heptyl acetate
	Hexyl acetate
	Isobutyl formate
	Isopropyl acetate
	Lard
	Lauric acid
	Lecithin
	Magnesium long chain alkaryl sulfonate (C11-C50)
	Magnesium long chain alkyl phenate sulfide (C8-C20)
	Magnesium long chain alkyl phenate sulfide (C8-C40)
	Magnesium long chain alkyl salicylate (C11+)
	Magnesium long chain alkyl salicylate (C13+)
	Mango kernel
	3-Methoxybutyl acetate
	1-Methoxy-2-propyl acetate
	Methyl acetate
	Methyl acetoacetate
	Methyl amyl acetate
	Methyl butyrate
	Methyl formate
	3-Methyl-3-methoxybutyl acetate
	Methyl salicylate
	Metolachlor
	Naphthalene sulfonic acid, sodium salt solution (40% or less)
	Nitrilotriacetic acid, trisodium salt solution
	Nonyl acetate
	Octamethylcyclotetrasiloxane
	n-Octyl acetate
	Octyl decyl adipate
	Oil, edible:
	Beechnut
	Castor
	Cocoa butter
	Coconut ²
	Cod liver
	Corn
	Cotton seed
	Fish ²
	Groundnut
	Hazelnut
	Lard
	Lanolin
	Nutmeg butter
	Olive
	Palm ²
	Palm kernel
	Peanut
	Poppy
	Poppy seed
	Raisin seed
	Rapeseed
	Rice bran
	Safflower
	Salad
	Sesame
	Soya bean
	Sunflower
	Sunflower seed
	Tucum
	Vegetable
	Walnut
	Oil, misc:
	Animal

Group	Cargo
	Coconut oil, fatty acid methyl ester Cotton seed oil, fatty acid Lanolin Palm kernel oil, fatty acid methyl ester Palm oil, methyl ester Pilchard Perilla Soapstock Soyabean (epoxidized) Tall Tall, fatty acid ² Tung Olefin/Akyl ester copolymer (molecular weight 2000+) Oleic acid Palm acid oil Palm fatty acid distillate Palm kernel acid oil Palm kernel acid oil, methyl ester Palm mid fraction Palm oil Palm oil fatty acid Palm oil fatty acid methyl ester Palm kernel olein Palm kernel stearin Palm olein Palm stearin n-Pentyl propionate Phosphate esters Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate Polydimethylsiloxane Polyferric sulfate solution Polymethylsiloxane Polyolefin amide alkeneamine borate (C28-C250) Poly(20)oxyethylene sorbitan monooleate Polysiloxane Polysiloxane/White spirit, low (15–20%) aromatic Polyolefin aminoester salt Polyolefin ester (C28-C250) Polyolefin phosphorusulfide, barium derivative (C28-C250) Potassium formate solution Potassium formate solution (75% or more) Potassium oleate Potassium salt of polyolefin acid Propyl acetate Propylene carbonate Propylene glycol methyl ether acetate Rapeseed oil fatty acid methyl esters Rapeseed oil (low erucic acid containing less than 4% free fatty acids) Shea butter Siloxanes Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide) ² Sodium acetate solution Sodium alkyl (C14-C17) sulfonates 60–65% solution Sodium benzoate solution Sodium bicarbonate solution (less than 10%) Sodium bromide solution (less than 50%) Sodium dimethyl naphthalene sulfonate solution ² Sodium long chain alkyl salicylate (C13+) Sodium naphthalene sulfonate solution Sodium petroleum sulfonate Sodium sulfate solutions Soyabean oil (epoxidized) Stearic acid Tall oil Tall oil, crude Tall oil, distilled Tall oil fatty acid (<i>Resin acids less than 20%</i>) ² Tall oil, pitch Tall oil soap, crude Tallow ² Tallow fatty acid ² Tributyl phosphate Tricresyl phosphate Tricresyl phosphate (containing 1% or more ortho-isomer)

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Group	Cargo
	Tricresyl phosphate (containing less than 1% ortho-isomer) Tridecanoic acid Tridecyl acetate Triethylene glycol dibenzoate Triethylene glycol di-(2-ethylbutyrate) Triethyl phosphate Triethyl phosphite ² Trisooctyl trimellitate Trisopropylated phenyl phosphates 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 2,2,4-Trimethyl-1,3-pantanediol-1-isobutyrate 2,2,4-Trimethyl-3-pentanol-1-isobutyrate Trimethyl phosphite ² Trisodium nitrilotriacetate Trixyl phosphate Trixylengyl phosphate Urea/Ammonium nitrate solution Vegetable acid oils and distillates, n.o.s. Vegetable fatty acid distillates Vegetable oils, n.o.s. Waxes: Carnauba Zinc alkaryl dithiophosphate (C7-C16) Zinc alkyl dithiophosphate (C3-C14)
35. Vinyl Halides	Vinyl chloride Vinylidene chloride
36. Halogenated Hydrocarbons	Benzyl chloride Bromochloromethane Carbon tetrachloride ² Catoxid feedstock ² Chlorinated paraffins (C10-C13) Chlorinated paraffins (C14-C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains) Chlorinated paraffins (C14-C17) (with 52% chlorine) Chlorinated paraffins (C18+) with any level of chlorine Chlorobenzene Chlorodifluoromethane Chloroform Chlorotoluene m-Chlorotoluene o-Chlorotoluene p-Chlorotoluene Chlorotoluenes (mixed isomers) Dibromomethane Dibutylphenols 3,4-Dichloro-1-butene Dichlorobenzene (all isomers) Dichlorodifluoromethane 1,1-Dichloroethane 1,6-Dichlorohexane Dichloromethane Dichloropropane Ethyl chloride Ethylene dibromide Ethylene dichloride ² Methyl bromide Methyl chloride Monochlorodifluoromethane n-Propyl chloride Pentachloroethane Perchloroethylene 1,1,2,2-Tetrachloroethane 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene (molten) 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane ² 1,1,2-Trichloroethane Trichloroethylene ² 1,2,3-Trichloropropane 1,1,2-Trichloro-1,2,2-trifluoroethane Acetonitrile Acetonitrile (low purity grade) Adiponitrile Lactonitrile solution (80% or less)
37. Nitriles	

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Group	Cargo
	2-Methylglutaronitrile
	2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)
	Propionitrile
	Tallow nitrile
38. Carbon Disulfide	Carbon disulfide
39. Sulfolane	Sulfolane
40. Glycol Ethers	Alcohol (C9-C11) poly (2.5-9) ethoxylates Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates Alcohol (C6-C17) (secondary) poly (7-12) ethoxylates Alcohol (C12-C16) poly (1-6) ethoxylates Alcohol (C12-C16) poly (7-19) ethoxylates Alcohol (C12-C16) poly (20+) ethoxylates Alkyl (C7-C11) phenol poly(4-12)ethoxylate Alkyl (C9-C15) phenyl propoxylate Diethylene glycol ² Diethylene glycol butyl ether Diethylene glycol dibutyl ether Diethylene glycol diethyl ether Diethylene glycol ethyl ether Diethylene glycol methyl ether Diethylene glycol n-hexyl ether Diethylene glycol phenyl ether Diethylene glycol propyl ether Dipropylene glycol Dipropylene glycol butyl ether Dipropylene glycol methyl ether Ethoxy triglycol Ethylene glycol hexyl ether Ethylene glycol methyl butyl ether Ethylene glycol monoalkyl ethers Ethylene glycol tert-butyl ether Ethylene glycol butyl ether Ethylene glycol dibutyl ether Ethylene glycol ethyl ether Ethylene glycol isopropyl ether Ethylene glycol methyl ether Ethylene glycol phenyl ether Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture Ethylene glycol propyl ether Glycerol/glycerol blend propoxylated (containing less than 10% amines) Glycerol, ethoxylated Glycerol, propoxylated Glycerol, propoxylated and ethoxylated Glycerol/Sucrose blend propoxylated and ethoxylated Hexaethylene glycol alpha-Hydro-omega-hydroxytetradeca (oxytetramethylene) Methoxy triglycol Nonyl phenol poly(4+)ethoxylates Pentaethylene glycol methyl ether Polyalkylene glycol butyl ether Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures Polyether glycol (MW 600-700) (TETRAETHANE 650) Polyether glycol (MW 950-1050) (TETRAETHANE 1000) Polyether glycol (MW 1350-1450) (TETRAETHANE 1400) Polyether glycol (MW 1900-2100) (TETRAETHANE 2000) Polyether glycol (MW 2825-2975) (TETRAETHANE 2900) Polyethylene glycols Polyethylene glycol dimethyl ether Poly(ethylene glycol) methylbutenyl ether (MW>1000) Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate Polyethylene glycol monoalkyl ether Polypropylene glycol methyl ether Polypropylene glycols Poly(tetramethylene ether) glycols (MW 950-1050) Polytetramethylene ether glycol n-Propoxypropanol Propylene glycol monoalkyl ether Propylene glycol ethyl ether Propylene glycol methyl ether Propylene glycol n-butyl ether Propylene glycol phenyl ether Propylene glycol propyl ether Tetraethylene glycol

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Group	Cargo
41. Ethers	Tetraethylene glycol methyl ether Triethylene glycol Triethylene glycol butyl ether Triethylene glycol butyl ether mixture Triethylene glycol ether mixture Triethylene glycol ethyl ether Triethylene glycol methyl ether Tripropylene glycol Tripropylene glycol methyl ether Alcohol (C12-C13, branched and linear) poly (4-8) propoxy sulfates, sodium salt 25-30% solution Alkaryl polyether (C9-C20) tert-Amyl methyl ether Brominated Epoxy Resin in Acetone Butyl ether n-Butyl ether-Dichloroethyl ether 2,2'-Dichloroisopropyl etherDiethyl ether Diethylene glycol propyl ether Diglycidyl ether of Bisphenol A Diglycidyl ether of Bisphenol F Dimethyl furan 1,4-Dioxane Diphenyl ether Diphenyl ether, Diphenyl phenyl ether mixture Ethyl tert-butyl ether Ethyl ether Isopropyl ether Long chain alkaryl polyether (C11-C20) Methyl-tert-butyl ether ² Methyl tert-pentyl ether Polyether (molecular weight 2000+) Polyether, borated Polyether polyols Poly(oxalkylene)alkenyl ether (MW>1000) Polyoxybutylene alcohol Propyl ether Tetrahydrofuran 1,3, 5-Trioxane o-Chloronitrobenzene Dinitrotoluene Nitrobenzene Nitroethane Nitroethane (80%)/Nitropropane (20%) Nitroethane, 1-Nitropropane mixture Nitropropane Nitropropane, Nitroethane mixtures Nitrophenol (mixed isomers) o- or p-Nitrotoluenes Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)
42. Nitrocompounds	Dinitrotoluene Nitrobenzene Nitroethane Nitroethane (80%)/Nitropropane (20%) Nitroethane, 1-Nitropropane mixture Nitropropane Nitropropane, Nitroethane mixtures Nitrophenol (mixed isomers) o- or p-Nitrotoluenes Alkyl (C8-C10)/(C12-C14):(50% or less/50%) polyglucoside solution (55% or less) Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less) Alkyl (C8-C10) polyglucoside solution (65% or less) Alkyl (C12-C14) polyglucoside solution (55% or less) Alkyl polyglucoside solutions Aluminum hydroxide, sodium hydroxide, sodium carbonate solution (40% or less) Aluminum sulfate solution ² 2-Amino-2-hydroxymethyl-1,3-propanediol solution Ammonium bisulfite solution ² Ammonium chloride solution (less than 25%) drilling brines Ammonium chloride solution (less than 25%) Ammonium lignosulfonate solution Ammonium nitrate, Urea solution (not containing Ammonia) Ammonium polyphosphate solution Ammonium sulfate solution Ammonium thiosulfate solution (60% or less) Barium sulfate slurry Calcium bromide solution Calcium chloride solution Calcium formate solution Calcium lignosulfonate solution Calcium lignosulfonate solution (free alkali content 1% or less) Caramel solutions Clay slurry
43. Miscellaneous Water Solutions.	

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Group	Cargo
	Coal slurry
	Corn syrup
	Dextrose solution
	2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution
	2,4-Dichlorophenoxyacetic acid, Trisopropanolamine salt solution ²
	Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution
	Diethylenetriamine pentaacetic acid, pentasodium salt solution
	Dodecyl diphenyl ether disulfonate solution
	Drilling brine (containing Calcium, Potassium, or Sodium salts)
	Drilling brine (containing Zinc salts)
	Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution
	Drilling mud (low toxicity) (<i>if non-flammable or non-combustible</i>)
	Ethylenediaminetetraacetic acid, tetrasodium salt solution
	Ethylene-Vinyl acetate copolymer emulsion
	Ferric hydroxyethylethylenediamine triacetic acid, trisodium salt solution ²
	Ferrous chloride solution (less than 40%, containing less than 10% Manganese and Aluminum chlorides)
	Fish solubles (<i>water based fish meal extracts</i>)
	Fructose solution
	Fumaric adduct of Rosin, water dispersion
	Hexamethylenediamine adipate solution
	N-(Hydroxyethyl)ethylene diamine triacetic acid, trisodium salt solution
	Kaolin clay slurry
	Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-butadiene rubber
	Latex, liquid synthetic
	Lignin liquor
	Ligninsulfonic acid, magnesium salt solution
	Liquid Streptomyces solubles
	L-Lysine solution (60% or less)
	Magnesium nitrate solution (66.7%)
	N-Methylglucamine solution
	N-Methylglucamine solution (70% or less)
	Naphthenic acid, sodium salt solution
	Polyacrylic acid solution (40% or less)
	Potassium chloride solution
	Potassium chloride solution (less than 26%)
	Potassium thiosulfate solution
	Potassium thiosulfate solution (50% or less)
	Rosin soap (disproportionated) solution
	Sewage sludge, treated
	Sodium alkyl sulfonate solution
	Sodium bromide solution (less than 50%)
	Sodium hydrogen sulfite solution
	Sodium lignosulfonate solution
	Sodium polyacrylate solution ²
	Sodium salt of Ferric hydroxyethylethylenediamine triacetic acid solution
	Sodium silicate solution ²
	Sodium sulfide solution
	Sodium sulfite solution
	Sodium sulfite solution (25% or less)
	Sodium tartrates, Sodium succinates solution
	Sulfonated polyacrylate solutions ²
	Tall oil soap (disproportionated) solution
	Tetrasodium salt of EDTA solution
	Titanium dioxide slurry
	Trisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution
	Urea, Ammonium nitrate solution (not containing Ammonia)
	Urea, Ammonium phosphate solution
	Urea solution
	Vegetable protein solution (hydrolysed)
	Water

Notes:

¹Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in Figure 1 to 46 CFR part 150 (Compatibility Chart).

²See Appendix I to 46 CFR part 150 (Exceptions to the Chart).